INTERNATIONAL SEARCH REPORT

Interponal Application No PCT/US2004/021027

		l	101/032004/02102/
A. CLASSIF IPC 7	FICATION OF SUBJECT MATTER H04L27/26 H04L1/06		
According to	International Patent Classification (IPC) or to both national classificati	on and IPC	
B. FIELDS S		on and ir o	
	cumentation searched (classification system followed by classification $H04L$	symbols)	
Documentati	ion searched other than minimum documentation to the extent that suc	ch documents are incl	rded in the fields searched
Electronic da	ata base consulted during the International search (name of data base	and, where practical	search terms used)
EPO-Int	ternal, INSPEC		
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant	vant passages	Relevant to claim No.
Х	SUMEI SUN; WIEMER I; HO C K; TJHUNG T T: 1-26 "Training sequence assisted channel estimation for MIMO OFDM" WCNC 2003 - IEEE WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE, vol. 1, 16 March 2003 (2003-03-16), pages 38-43, XP002304707		1–26
А	NEW ORLEANS, LA, USA the whole document	/	27-30
X Furt	ther documents are listed in the continuation of box C.	Patent family	members are listed in annex.
<u></u>			
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another		T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled.	
P document published prior to the international filing date but		in the art. & document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report	
23 November 2004		29/11/2004	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk		Authorized officer	
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Yang,	Υ

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C.(Continu	Ition) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MYEONGCHEOL SHIN ET AL: "A new training symbol structure to enhance the performance of channel estimation for mimo-ofdm systems" 2003 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING. PROCEEDINGS. (ICASSP). HONG KONG, APRIL 6 - 10, 2003, IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING (ICASSP), NEW YORK, NY: IEEE, US, vol. Vol. 1 OF 6, 6 April 2003 (2003-04-06), pages IV397-IV400, XP010641180 ISBN: 0-7803-7663-3 the whole document	1-30